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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P15944 DrB/o	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (daylmon	th/year) Priority date (day/month/year)					
PCT/EP 03/05980	06.06.2003	07.06.2002					
International Patent Classification (IPC) or both national classification and IPC A01N37/36							
Applicant UNIVERSITAET REGENSBURG et al							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
peen amended and are the ba	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	These annexes consist of a total of sheets.						
This report contains indications rela	ating to the following items:						
	tung to the following items:						
I ⊠ Basis of the opinion II □ Priority							
•	ninion with regard to novelby in	ventive step and industrial applicability					
IV Lack of unity of invention		ventive step and industrial applicability					
V ⊠ Reasoned statement un		to novelty, inventive step or industrial applicability;					
VI Certain documents cited							
VII Certain defects in the int	ternational application						
VIII Certain observations on	the international application						
Date of submission of the demand	Date of c	completion of this report					
12.12.2003	03.09.2	03.09.2004					
Name and mailing address of the international	Authoriz	Authorized Officer					
preliminary examining authority: European Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo ni Fax: +31 70 340 - 3016		ne No. +31 70 340-4123					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/05980

I.	Basis	of the	repo	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	D	escription, Pages		
	1-	27	as originally filed	
	C	aims, Numbers		
	1-24		as originally filed	
	Dr	awings, Sheets		
	1/5	5-5/5	as originally filed	
2.	Wi lar	th regard to the lang Iguage in which the i	juage , all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.	
	Th	ese elements were a	available or furnished to this Authority in the following language: , which is:	
			ranslation furnished for the purposes of the international search (under Rule 23.1(b)).	
		the language of pu	blication of the international application (under Rule 48.3(b)).	
		the language of a t Rule 55.2 and/or 55	ranslation furnished for the purposes of intermediated to the	
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application international preliminary examination was carried out on the basis of the sequence listing: 				
		contained in the int	ernational application in written form.	
		filed together with t	he international application in computer readable form.	
	☐ furnished subsequently to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form.		
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.		
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.	
1.	The	amendments have i	resulted in the cancellation of:	
		the description,	pages:	
		the claims,	Nos.:	
1		the drawings,	sheets:	



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5.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No:

3-8,11-23

No: Claims

1-2, 9-10, 24

Inventive step (IS)

Yes: Claims

No: Claims

1-24

1-24

Industrial applicability (IA)

Yes: Claims

Claims

2. Citations and explanations

see separate sheet



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP 03/05980

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

It is known from D1 (Chemical Senses (2000), 25(3), 323-330; see Chemical Abstract accession n°133:235483) that the attractive effect of lactic acid on female Aedes aegypti is increased when combined with carboxylic acids of chain length C1-C3, C5-C8 and C15-C18. Examples include mixtures of lactic acid with valeric acid or propanoic acid. A further increase of attractiveness is obtained by adding a second acid and the use of two groups of carboxylic acids, C1-C3 and C5-C8 is suggested. Together with ammonia, lactic acid plus a C1-C3 fatty acid and a C5-C8 fatty acid formed the most attractive blend. D1 is therefore novelty destroying for the subject-matter of claims 1-2, 9-10 and 24 (Article 33(2) PCT).

Given the teaching of D1, the problem underlying the invention may be seen as that of improving the attractiveness of hydroxy (thio)carboxylic acids containing compositions for blood sucking arthropods. The use of caproic acid as component b, the choice of the ratio a:b:c and the addition of CO2 which is the major attractant in human breath are all considered as obvious modifications or optimizations which do not imply an inventive step. Claims 3-8, 11-23 cannot therefore be considered as being inventive (Article 33(3) PCT).

The subject-matter of all claims (1-24) is considered to be industrially applicable and the present application is therefore considered to satisfy the criterion set forth in Article 33(4) PCT.